

### **Amendments to the Specification**

***Please replace the abstract with the following amended abstract:***

The present application relates to a A particle characterization apparatus in which particles suspended in a liquid passes pass through an orifice or aperture for detection and characterization of the particles utilizing utilising impedance determination. In particular, the invention relates to utilization of apparatus includes a membrane of a polymer as a base material for precision machining of a sub-millimeter sub-millimetre orifice. Forming the orifice in a polymer membrane facilitates the construction of a single use cartridge for haematology analysis due to low material and production costs.